



## The Eastern Transportation Coalition TSMO Happenings October 2020 – April 2021

### Catch up on The Eastern Transportation Coalition - TSMO News!

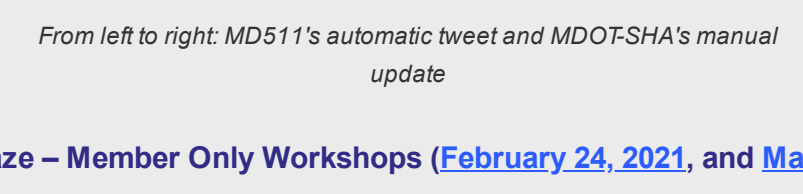
The Coalition has been very busy providing many opportunities for agency training, information exchange, and engagement! Our members and distinguished speakers shared a lot of valuable information and we would like to share it with you!

### Traveler Information

#### Web Summit: Innovative Capture and Dissemination of Data Used for Traveler Information (April 1, 2021)

Five presentations were made by private and public sector organizations about how travel information data is acquired and distributed to assist in making decisions affecting the public including commercial vehicles. **Rick Dye of Maryland DOT-SHA** discussed how Maryland DOT-SHA's CHART office provides automated event updates via their [MD511 Twitter page](#). **Russell Holt of Rhode Island DOT** explained how his agency is working to decrease the number of accidents caused by wrong-way driving with intelligent wrong-way alert systems, **Paul Cooper of OptaSense** presented how their product uses fiber optic sensing to help agencies monitor traffic, and **John Parker of the Pennsylvania Turnpike Commission (PTC)** described how the PTC is reducing crashes involving emergency service providers and vehicles along the Turnpike by integrating their HAAS alerting system with Waze. Finally, **Amy DiRusso of Florida DOT** explained how her agency developed a dashboard to track and communicate the repair status of hurricane-damaged traffic signals.

- [Presentation with Audio](#)
- [Slides Only](#)
- [Q & A Summary](#)



*From left to right: MD511's automatic tweet and MDOT-SHA's manual update*

#### The Value of Waze – Member Only Workshops (February 24, 2021, and March 3, 2021)

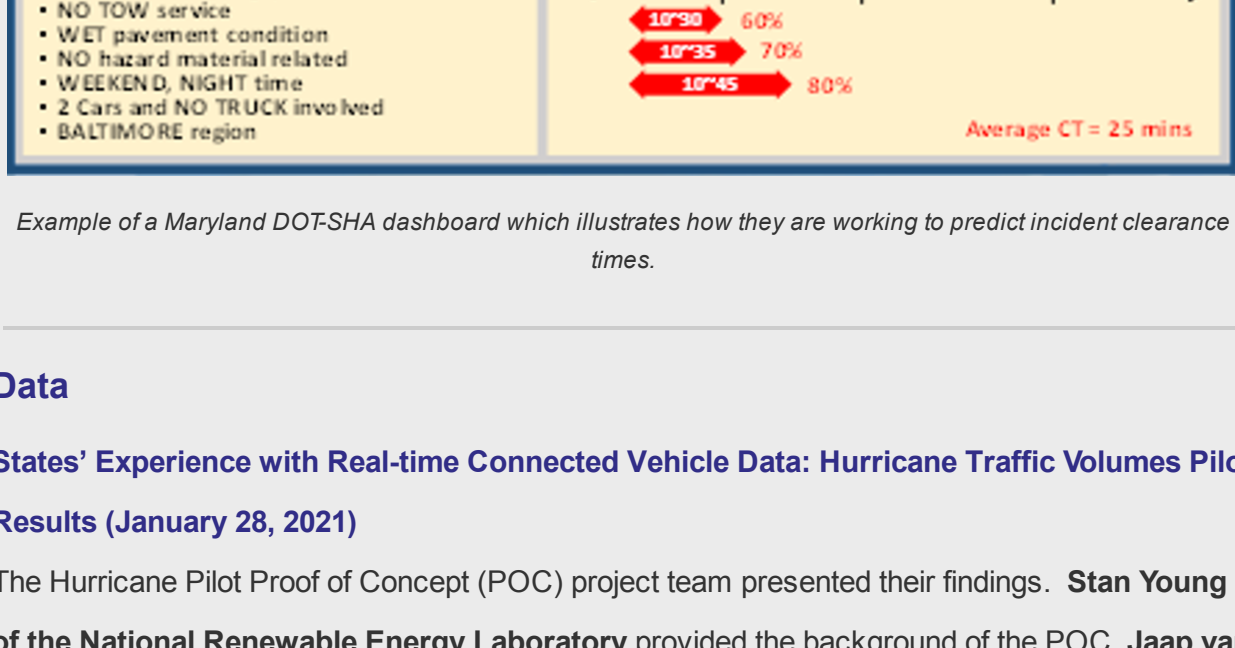
Over a two-week period, Waze Working Group members came together to learn how to improve their use of the tools within the Waze app. **Rosalinda Deville of Louisiana DOTD** and **Chester Osborne of Massachusetts DOT** presented how their agencies use Waze for road situational awareness and event detection, respectively. The second workshop provided an opportunity for agencies to learn more about data maturity within their agency and how to share that data with Waze. For information on this working group, please contact **Denise Markow** ([dmarkow@tetcoalition.org](mailto:dmarkow@tetcoalition.org)).

#### Travel Information Web Roundtable: Communicating with Travelers (November 19, 2020)

During this member-only event, agency representatives from 16 states discussed how they are providing safety and traveler information to their users, including DMS, 511 websites and apps, social media, geofenced notifications, IVR, and much more. Many agencies are also investigating or piloting emerging technologies to enhance their program.

For example, Maryland DOT spoke about analyzing UMD's incident data to better determine incident duration. By taking into account many factors they can determine the "probable" duration for an incident.

- [Presentation with Audio](#)
- [Slides Only](#)
- [Meeting Summary](#)



*Example of a Maryland DOT-SHA dashboard which illustrates how they are working to predict incident clearance times.*

### Data

#### States' Experience with Real-time Connected Vehicle Data: Hurricane Traffic Volumes Pilot Results (January 28, 2021)

The Hurricane Pilot Proof of Concept (POC) project team presented their findings. **Stan Young of the National Renewable Energy Laboratory** provided the background of the POC, **Jaap van den Hoek of Wejo** explained how connected vehicle data (CVD) can be used to monitor and predict traffic volumes, and **Kaveh Farokhi Sadabadi of the University of Maryland CATT** reviewed the process of determining uplift factors for the CVD and the subsequent analysis to determine if CVD is consistent enough to provide meaningful volume in real-time. Additionally, **Denise Markow of the Eastern Transportation Coalition** and **Simona Babiceanu of Virginia DOT** discussed feedback from Virginia DOT and Georgia DOT regarding the Moonshadow Live Traffic Data (DB4IOT) platform. Finally, **Stan Young** reviewed the main takeaways and lessons from the POC, noting that managing CV data is challenging for the industry, but is valuable.

- [Presentation with Audio](#)
- [Slides Only](#)
- [Q & A Summary](#)

More information including the final report for Hurricane Proof of Concept: States' Experience with Real-time Connected Vehicle Data is available on the [Project Page](#).

### Hurricane Proof of Concept for The Eastern Transportation Coalition September – November 2020

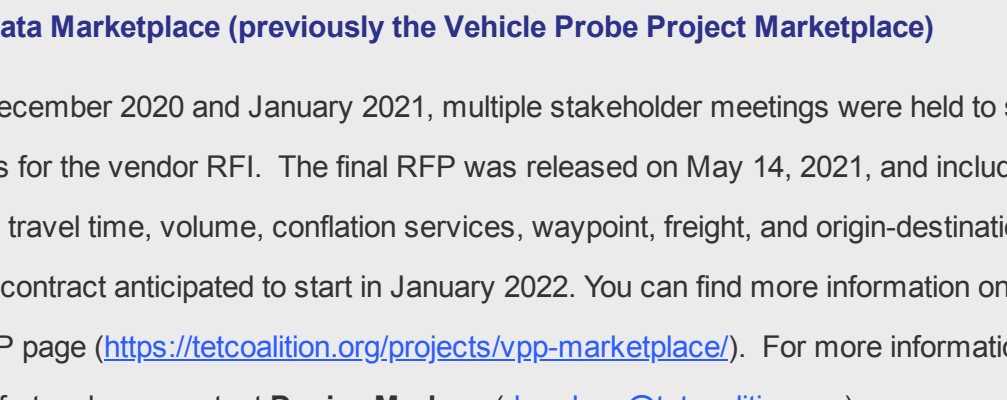
Waypoints/Day	2,500,000,000
Trips/Day	7,500,000
Vehicles/Day	2,500,000
Peak Hour Vehicle Updates per Second	100,000
Files per Hour	40,000
Gigabytes/Day	50
Average Vehicle to User Map Latency (seconds)	45
Average User Map Update Frequency (seconds)	30
Vehicle Update Frequency (seconds)	3

Understanding and monitoring dwell time around POIs to determine length of stay and purpose of visit

#### The Changing World of Optimal Traffic Monitoring Web Meeting (December 10, 2020)

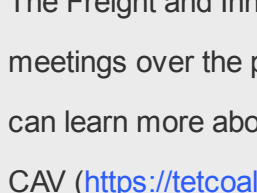
**Stan Young of the National Renewable Energy Laboratory** provided an overview of the updated Optimal Traffic Monitoring Guide and the work the NREL team had done to understand the impact of COVID-19 on the travel industry, mobility behavior, and population flow. This was a collaborative effort among many agencies funded by the USDOE and Office of Vehicle Technologies. **Michael Pack of UMD CATT Lab** discussed a variety of traffic monitoring resources, including the FHWA Traffic Monitoring Guide - 2016 Edition. Additionally, he discussed the *Causes of Highway Congestion* pie charts, which will provide data at a regional level based upon the local factors that are the cause of the congestion.

- [Presentation with Audio](#)
- [Slides Only](#)
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*A graph showing which modes are recovering the fastest from the impacts of COVID-19.*

#### Introducing Stan Young as the Coalition's Chief Data Officer!



**Stan Young of the National Renewable Energy Laboratory** recently joined the Coalition's team. As **Chief Data Officer**, he will be spearheading the Traffic Data Marketplace Project as well as other new data-driven projects for the Coalition. Outside of the Coalition, he is the Mobility Systems team lead for the National Renewable Energy Laboratory's Center for Integrated Mobility Science. He also serves as the DOE technologist for the Columbus Smart City program.

#### Traffic Data Marketplace (previously the Vehicle Probe Project Marketplace)

During December 2020 and January 2021, multiple stakeholder meetings were held to set the standards for the vendor RFI. The final RFP was released on May 14, 2021, and includes six datasets: travel time, volume, conflation services, waypoint, freight, and origin-destination data. The new contract anticipated to start in January 2022. You can find more information on the TDM/VPP page (<https://tetcoalition.org/projects/vpp-marketplace/>). For more information on the review efforts, please contact **Denise Markow** ([dmarkow@tetcoalition.org](mailto:dmarkow@tetcoalition.org)).

### Freight and Innovation Programs

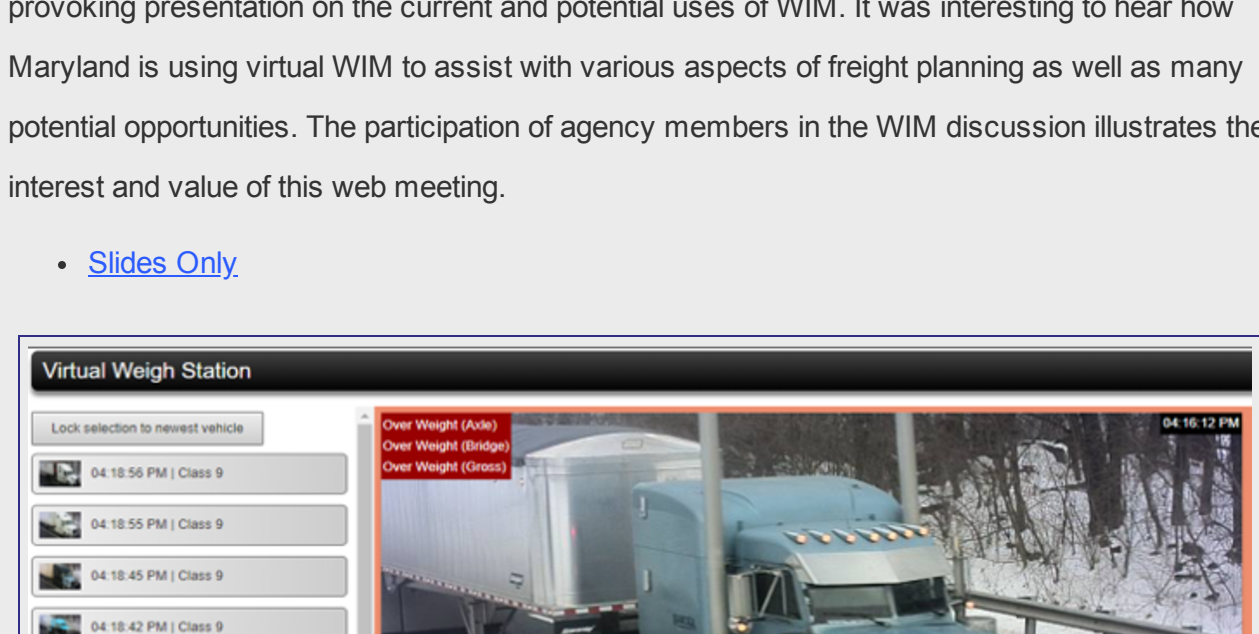
The Freight and Innovations/CAV Programs have hosted informative and collaborative web meetings over the past six months as well! Below are highlights from two of their meetings. You can learn more about these programs on the Freight (<https://tetcoalition.org/freight-program/>) and CAV (<https://tetcoalition.org/connected-automated-vehicles/>) sections of the website.

If you are interested in joining a CAV or Freight Committee, please contact **Ginna Reeder** ([vreeder@tetcoalition.org](mailto:vreeder@tetcoalition.org)) or **Marygrace Parker** ([mgparker@tetcoalition.org](mailto:mgparker@tetcoalition.org)), respectively.

#### CAV Workshop - AV Pilots: From Transit to Freight - Getting on the Road (March 23, 2021)

The CAV Workshop offered participants a close look at three AV pilots in the Coalition region. The featured projects represented a range of approaches, stages of development and covered transit, and freight. During the first session, **Christos Xenophontos of Rhode Island DOT**, **Nathan Attard of the Delaware Transit Corporation**, and **Dennis Solensky & Pete Calcatera of Connecticut DOT** presented the results of their AV Transit Pilot Projects. The experiences and takeaways presented gave participants practical information and insights to consider as they begin or advance their efforts with autonomous transit vehicles.

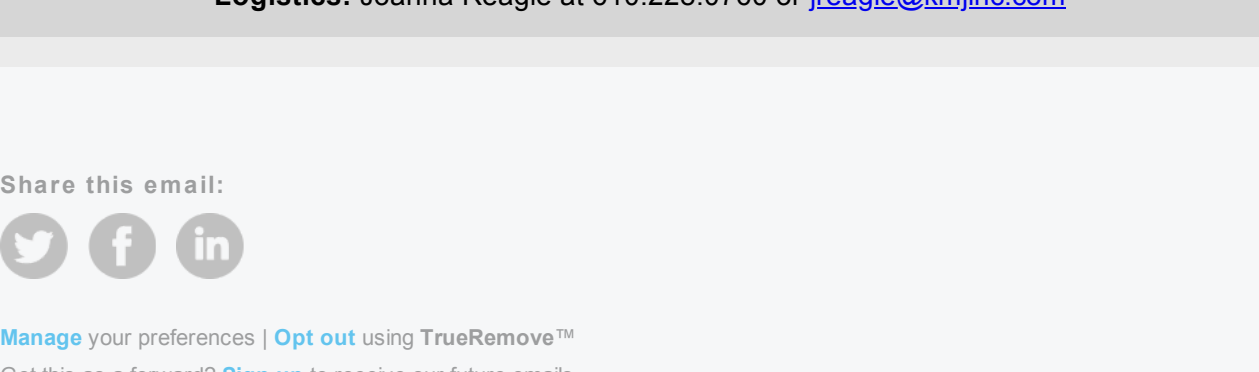
During the second session, **Dan Pallme of Tennessee DOT** and **Mark Kopko of Pennsylvania DOT** presented the results of their Freight Platooning Pilots, which use automated vehicles. The presentation provided insight into both the technology and processes associated with these agencies' freight platooning programs and the issues they have encountered.



#### Freight Committee Web Meeting: Program Update and Spotlight Presentation: Using Weigh-in-Motion in Maryland (February 25, 2021)

**Nikola Ivanov of the University of Maryland CATT Lab** presented an informative and thought-provoking presentation on the current and potential uses of WIM. It was interesting to hear how Maryland is using virtual WIM to assist with various aspects of freight planning as well as many potential opportunities. The participation of agency members in the WIM discussion illustrates the interest and value of this web meeting.

- [Slides Only](#)



#### Follow the Coalition on YouTube and subscribe to be informed!

Recordings from many of the Coalition's webinars are available [here - take a look!](#)

**Questions or Comments:**  
**General Coalition:** Denise Markow at 301.789.9088 or [dmarkow@tetcoalition.org](mailto:dmarkow@tetcoalition.org)  
**Logistics:** Joanna Reagle at 610.228.0760 or [jreagle@kmjinc.com](mailto:jreagle@kmjinc.com)

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